# Yamaha RX-A810

MSRP: $849.95

**The RX-A810 AVENTAGE AV Receiver features 8-HDMI inputs (one on front panel) and 2-HDMI simultaneous outputs with 3D and Audio Return Channel. Networking capabilities, DLNA 1.5 and Windows 7 certification for countless hours of music streaming enjoyment, iPhone App compatibility, HD Audio decoding with Cinema DSP 3D surround with or without Front Presence Speakers, front panel USB direct digital connection for iPhone/iPod, on-screen GUI, Multi-point YPAO, SCENE buttons, Zone B HDMI and RS-232C interface for custom installation.**

- AVENTAGE AV Receivers: Designed to Deliver the Highest Levels of Audio Performance
- Aluminum Front Panel Offers Visual and Aural Benefits
- A.R.T. Wedge Helps to Ensure that Vibrations Do Not Affect Sound Quality
- 7-channel powerful surround sound, 100W per Channel (8 ohms, 20 Hz-20 kHz, 0.09 % THD, 2 ch driven)
- Access to Internet Radio, Streaming Services and music files on PC
- AV Controller app for operating various functions from an iPhone and iPad, etc.
- Android app available in the coming months
- 1080p-compatible HDMI: 8 inputs (1 on front) and 2 outputs
- Front panel USB Digital Connection for iPod and iPhone
- Advanced multi-language GUI on-screen display with album art
- YPAO sound optimization with multi-point measurement
- HDMI CEC with versatile control from AV Receiver remote control
- HD Audio decoding with CINEMA DSP 3D (17 DSP programs)
- Versatile Zone control

# Specs

| | | |
|---|---|---|
| Amplifier Section | Channel | 7.2 |
| | Rated Output Power (1kHz, 2ch driven) | 110W (8ohms, 0.9% THD) |
| | Rated Output Power (20Hz-20kHz, 2ch driven) | 100W (8ohms, 0.09% THD) |
| | Dynamic Power per Channel (8/6/4/2 ohms) | 140/180/210/250W |
| Surround Sound Processing | CINEMA DSP | Yes (3D) |
| | DSP Programs | 17 |
| | Compressed Music Enhancer | Yes |
| | Virtual Presence Speaker | Yes |
| | Dialogue Lift | Yes |
| | SILENT CINEMA / Virtual CINEMA DSP | Yes |
| | Dolby TrueHD | Yes |
| | Dolby Digital Plus | Yes |
| | Dolby Pro Logic IIx | Yes |
| | DTS-HD Master Audio | Yes |
| Audio Features | Pure Direct | Yes |
| | YPAO multi-point measurement | Yes |
| | Adaptive DRC (Dynamic Range Control) | Yes |
| | Initial Volume & Maximum Volume Setting | Yes |
| | A.R.T. Wedge | Yes |
| | Bi-amp capability | Yes |
| | Audio Delay | Yes（0-250 ms） |
| | 192kHz/24-bit DACs for all channels | Yes (Burr Brown) |
| Video Features | HDMI 3D passthrough | Yes |
| | HDMI Audio Return Channel | Yes |
| | Component upconversion | Yes |
| | HDMI upscaling | Yes (Analog to HDMI / HDMI to HDMI) |
| | Deep Color/x.v.Color/24Hz Refresh Rate /Auto Lip-Sync | Yes |
| Extensive Connection | HDMI Input/Output | 8 (front 1) / 2 (Simultaneous) |
| | HDMI CEC | Yes (SCENE, Device Control) |

| | | |
|---|---|---|
| | USB Input | iPod/iPhone, USB Memory, Portable Audio Player |
| | Network Port | Access to Pandora, Rhapsody, SIRIUS Internet Radio, Napster and vTuner Internet Radio services. Also DLNA 1.5 and Win 7 Compatible. |
| | Dock Port | 1 (for optional YDS-12, YID-W10 or YBA-10) |
| | Front AV Input | HDMI, USB, Analog Audio and Composite |
| | Digital Audio Input/Output: Optical | 2 / 0 |
| | Digital Audio Input/Output: Coaxial | 2 / 0 |
| | Analog Audio Input/Output | 5 (front 1) / 1 |
| | Component Video Input/Output | 2 / 1 |
| | Composite Video Input/Output | 5 (front 1) / 1 |
| | Preout | 7.2ch |
| | Headphone Output | 1 |
| Tuner Section | FM/AM Tuner | Yes |
| | SIRIUS Satellite Radio Ready | Yes |
| User Interface | On-screen display | Advanced Graphical User Interface with Status |
| | SCENE | SCENE (4 sets) |
| | iPhone App Control | Yes |
| | Web Browser Control | Yes |
| | Remote Control Unit | Yes (Preset) |
| Zone Control | Zone 2 Audio Output | Line output |
| | Powered Zone | Zone 2 |
| | RS-232C Interface | Yes |
| | +12V Trigger Output | 1 |
| | Remote (IR) Input/Output | 1 / 1 |
| | Party Mode | Yes |
| General | Standby Power Consumption (IR only) | ≤0.1W |
| | Auto Power Down | Yes |
| | Dimensions (W x H x D) | 17-1/8” x 6-3/4” x 14-1/2” |
| | Weight | 24.5 lbs. |
| | Shipping Dimensions (W x H x D) | 17-3/4" x 10-1/2" x 20-7/8" |
| | Shipping Weight (lbs.) | 28.66 lbs. |
| Detachable Power Cord | | Yes |
| Front Panel | | Aluminum Front Panel |

# Features

## AVENTAGE AV Receivers: Designed to Deliver the Highest Levels of Audio Performance

The AVENTAGE line of high-performance AV receivers is based on the audio design concept of providing a massive, full-bodied sound for movie sound effects and the accurate reproduction of music sources. By expertly harmonizing traditional and advanced technologies, every factor that affects sound quality, from materials and parts to construction, layout, vibration damping (unique A.R.T. Wedge foot) and “fine-tuning” the sound, is handled with no other thought than to achieve the best possible audio quality. As a result, every AVENTAGE model has the ability to reproduce the most subtle details of high-definition sound, so that listeners can enjoy a truly high-class sound studio experience at home.

## A.R.T. Wedge Helps to Ensure that Vibrations Do Not Affect Sound Quality

The A.R.T. (Anti-Resonance Technology) Wedge is a fifth foot in the center of the unit. It dampens vibrations from the power transformer, power transistors and heat sinks, as well as vibrations that might be caused by the sound from the speakers. This elimination or reduction of vibration provides an audible increase in sound quality throughout the AVENTAGE Series.

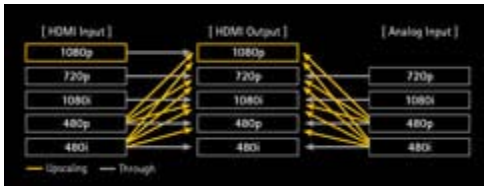
## Aluminum Front Panel Offers Visual and Aural Benefits

All of the AVENTAGE components feature the same sleek, clean design, with an elegant aluminum front panel and silky touch volume/selector knobs. The aluminum front panel is used to effectively shield sensitive circuitry from external noise and electronic energy generated by dimmer switches, fluorescent lighting, video monitors and so on. This ensures optimum sonic performance in the widest range of installation environments.

## HDMI with 3D and Audio Return Channel

3D means the receiver can handle 3D signal data. The Audio Return Channel function enables data to be sent and received via the same HDMI cable, so you can hear the sound from the TV via a single HDMI cable, with no need for an extra optical cable.

## Analog and HDMI Video Upscaling to Full HD 1080p



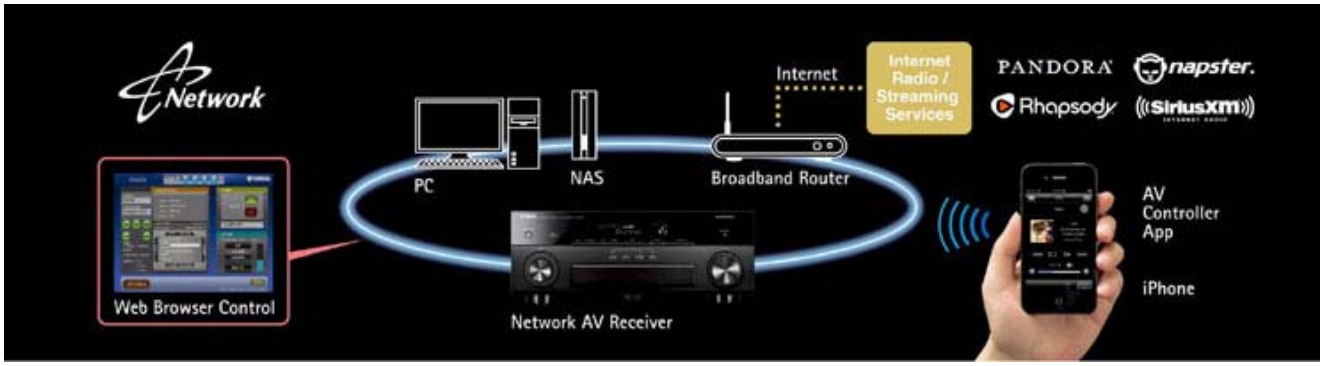

This AV Receiver will upscale video signals up to 1080p. HDTVs capable of 720p, 1080i or 1080p resolution can provide more detailed picture.

## High Quality Video Processing with Edge Adaptive Deinterlacing

In ordinary deinterlacing, pixels in areas of movement are interpolated by upper and lower ranges. This causes jaggies in diagonal lines. Edge adaptive deinterlacing detects the direction of the line and interpolates the pixels optimally.

## Network Functions

This AV receiver provides a variety of network functions that enable you to access more sources and also enhance operation. You can connect the receiver to a PC to enjoy Internet Radio, Pandora, Rhapsody, Sirius XM and Napster, and use a Web Browser Control. The AV Controller app lets you control various functions from your iPhone or iPad, etc.




## AV Controller App for Easy, Convenient Operation

The AVENTAGE AV Receivers let you use the Yamaha AV Controller app, a free download from the iTunes App Store to control power on/off and volume, select input and DSP modes and operate other functions from an iPhone, iPad and other devices. An Android app will be available in the coming months.

Input Select

DSP Mode Select

AV Receiver Control

## USB Digital Connection for iPod and iPhone on the Front Panel

A USB port on the front panel allows convenient connection of an iPod/iPhone, which also charges when connected. Because the digital signal from the iPod/iPhone is transmitted directly to the AV receiver, there is no signal loss or interference, so you enjoy the best possible sound quality. In addition, you can use the receiver's remote control unit to operate the iPod/iPhone music playback functions.

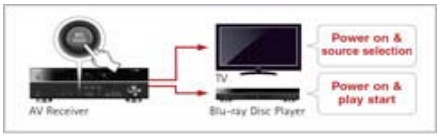
## YPAO Sound Optimization with Multi-Point Measurement

YPAO analyzes the room acoustics and adjusts various audio parameters for optimum sound from your listening position, and lets you set up to eight positions. It's like having a professional installer calibrate your system.

## SCENE for One-Touch Start

The Four SCENE buttons make operating the receiver easier than ever. They are initially set to default settings for BD/DVD Viewing, CD Disc Listening, TV Viewing and Radio Listening. Pressing a SCENE button will automatically launch a number of operations that initiate play of the source controlled by that button. Other SCENE settings are also available, such as iPod Listening, SiriusXM Listening [model dependent], TV Sports Viewing and Action Game Playing. Browsing and selecting the settings is quickly accomplished by changing Input via the front panel and watching the on-screen display. The settings can be selected for one-time use, or they can replace the original default settings. The SCENE names can be changed also.

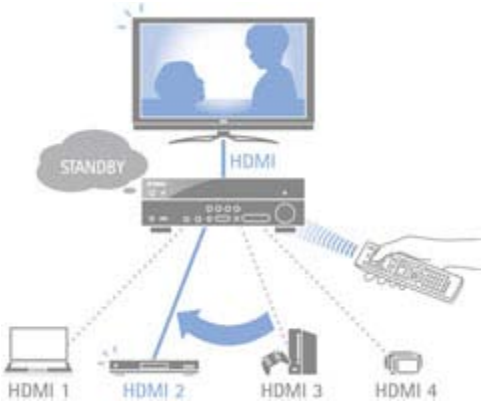
## HDMI CEC for Easy Operation




Another benefit of HDMI is the availability of CEC (Consumer Electronics Control) functionality. When the unit is connected to a CEC compatible TV, it will turn on and off together with the TV, and you can use the TV remote to control the volume. CEC also provides advanced functionality with other components. For example, you can use the receiver's remote unit to control player functions like Skip and Stop.

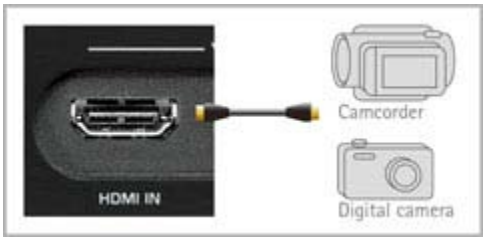
*All connected devices must be HDMI CEC compatible. Some CEC compatible TVs/players may not work.

## Input Selection in HDMI Standby Through Mode




When the AV receiver is in HDMI Standby Through mode, the input source (Blu-ray™ Disc player, game console, etc.) for viewing on the monitor can be changed via the remote control. There's no need to turn on the AV receiver in order to switch sources.

## HDMI Front Panel Input

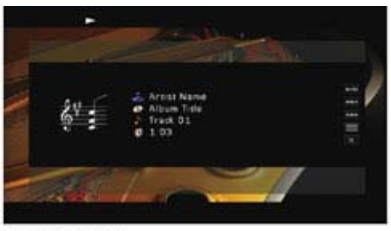



In addition to the large number of HDMI inputs on the rear panel, there is also one on the front panel. This gives you a convenient way to quickly plug in a digital camera or camcorder for highest quality pictures.

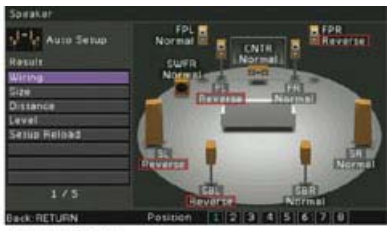
## Advanced On-Screen GUI

Yamaha's latest Graphical User Interface (GUI) has a high resolution display with clear, easy-to-use menus and also includes a selectable Status Bar that shows input source, volume level, DSP mode and audio format. The GUI provides a choice of six languages: English, French, German, Japanese, Russian and Spanish, and can be displayed over both normal and 3D pictures.

On Screen Menu



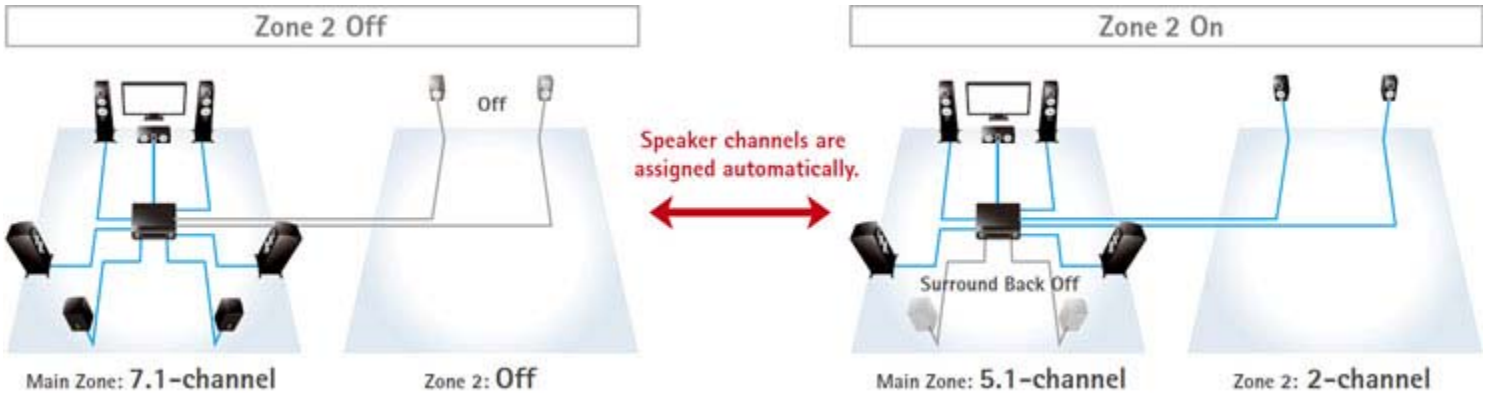
Content Window



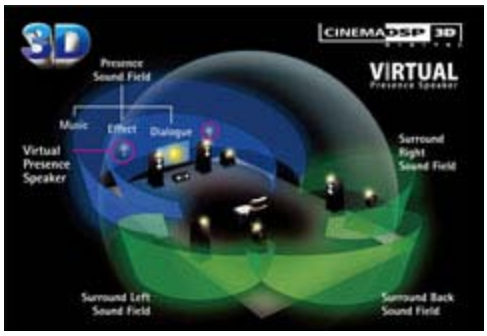

Speaker Setup

## Intelligent Amp Assign

Intelligent Amp Assign automatically assigns amplifier channels to certain speakers, depending on what functions are selected. For example, in a 7.1-channel system, when Zone 2 is off, all 7.1 channels will be used in the Main Zone. However, when Zone 2 is on, power to the two Surround Back channels will be directed to the two speakers in Zone 2, and the Main Zone will receive 5.1 channels of power. Similarly, when CINEMA DSP 3D is on, the two Front Presence speakers will be powered and not the two Surround Back speakers. When CINEMA DSP 3D is off, this situation is reversed. Thanks to Intelligent Amp Assign, there's no need to switch the speaker cables on the rear of the receiver—one more way Yamaha makes your life a little easier.

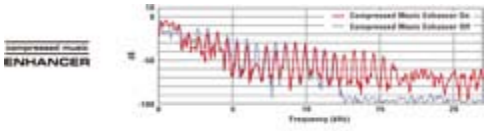



## HD Audio with CINEMA DSP 3D and Virtual Presence Speaker




CINEMA DSP 3D provides a wide, high and dense sound field. HD Audio format decoding lets you enjoy HD Audio sources. Virtual Presence Speaker delivers 3-dimensional sound without actual use of presence speakers. The actually measured sound field data contain the information of the height of the sound images. CINEMA DSP 3D mode achieves the reproduction of the accurate height of the sound images so that it creates the accurate and intensive stereoscopic sound fields in a listening room.

## Compressed Music Enhancer




When music is encoded into a digitally compressed format like MP3, the frequency response suffers. Yamaha's Compressed Music Enhancer employs sophisticated digital signal processing using exclusive algorithms to restore what was lost, so the music always sounds the way it should.

## Adaptive DRC (Dynamic Range Control)

Adaptive DRC automatically adjusts the dynamic range of the sound according to the volume level. This ensures that you hear clear dialogue and vocals, and all sound effects at comfortable levels. There is no need to adjust the volume level as you listen; everything from whispers to big explosions will be heard clearly and comfortably at the same volume setting. It also tones down loud TV commercials, and is ideal for low-volume, late-night listening, when you do not want to disturb others.

## Versatile Zone Control

- Zone 2 on/off and control on front panel
- Zone sleep and system sleep
- Remote input/output
- Programmable +12V trigger output
- RS-232C interface

## Low Standby Power Consumption

Yamaha makes its receivers eco-friendly with a low standby power consumption of 0.1W (2W in HDMI Standby Through mode).

## Eco-Friendly Design with Selectable Auto Power Down

Auto Power Down lets you save energy by selecting to turn off the power after 4, 8 or 12 hours.

## Optional Accessories for Added Convenience

Yamaha optional docks make it easy to enjoy your favorite music from your iPod or iPhone, with or without cables. Select from of the following models:
yAired Wireless Dock System YID-W10
Universal Dock for iPod/iPhone YDS-12
Bluetooth® Wireless Audio Receiver YBA-10

## Notable Audio Features

• 7-channel powerful surround sound
-100W per Channel (8 ohms, 20 Hz-20 kHz, 0.09 % THD, 2 ch driven)
-110W per Channel (8 ohms, 1 kHz, 0.9 % THD, 2 ch driven)
• HD Audio format decoding: Dolby TrueHD and DTS-HD Master Audio; Dolby Digital Plus and DTS-HD High Resolution Audio
• Discrete amp configuration
• Selected high quality parts to achieve optimum audio performance
• Pure Direct for HD Audio and video enjoyment
• Low jitter PLL circuitry helps optimize sound imaging
• Detachable Power Cable for easier installation (also allows cable upgrade)
• Assignable amplifiers for bi-amp connection
• Intelligent assignable amplifiers for Surround Back - Front Presence or Zone 2

## Notable Video Features

• 1080p-compatible HDMI: 8 inputs (1 on front) and 2 outputs
• Supports Deep Color (30/36 bit), x.v.Color, 24Hz Refresh Rate and Auto Lip-Sync compensation
• Multi-cadence (incl. 3-2 pull-down) detection
• HDMI with 3D and Audio Return Channel

## Notable Advanced Features

• DLNA 1.5 certified
• SIRIUS Satellite Radio ready
• Audio input assign capability for HDMI and component video input
• iPod/iPhone compatibility with optional YDS-12 Universal Dock
• Wireless connection for iPod/iPhone with optional YID-W10
• Bluetooth (A2DP) compatibility with optional Yamaha Bluetooth® Wireless Audio Receiver YBA-10
• iPod/iPhone song titles displayed in English and Western European languages on the front panel and on-screen display
• Dialogue Lift
• Audio Delay for adjusting Lip-Sync (0-250ms)
• Preset remote unit
• Background video feature (for tuner, Net, USB and SIRIUS Satellite Radio)

## Notable Surround Realism Features

• Virtual Presence Speaker function for CINEMA DSP 3D surround without Front Presence Speakers
• Adaptive DSP Level
• SILENT CINEMA and Virtual CINEMA DSP

# Technology

## 3D

Yamaha receivers displaying this icon support 3D HDMI pass-through on HDMI from 3D-compatible Blu-ray, games and broadcast devices to 3D-compatible HDTVs. 3D provides a more engaging audio and video consumer experience when using a 3D-capable products and 3D media content. Note that special eyewear may be required for viewing 3D content.

## Network

Yamaha AV Receivers are the perfect control centers for a home entertainment network. Their network functions include support for FLAC 96/24 (high quality lossless format), compatibility with Windows7 and DLNA 1.5 (for finding and playing digital sources) and web browser control from a PC or PDA.

## DLNA CERTIFIED

DLNA certification ensures a device has been tested and proven compatible with various CE, PC and mobile devices designed according to the DLNA Interoperability Guidelines. Products certified by DLNA will bear a logo that will give consumers peace of mind that the device they are purchasing has undergone rigorous testing and conforms to the Interoperability Guidelines.

## Windows7

The Microsoft Windows certification program independently confirms that products meet or exceed a standard set of design specifications for program compatibility with the Windows operating system. Certified programs are proven to be designed and implemented according to a common set of design criteria, thereby ensuring the end user an experience consistent with other Windows designed applications.

## Rhapsody

Listen all you want. A Rhapsody subscription lets you listen to anything and everything in the catalog — currently over 10 million songs. With a subscription, you don't have to worry about paying for individual songs, ripping CDs or managing files. You can just sign in and start listening.

## SiriusXM InternetRadio

Don't miss a minute of SiriusXM's unmatched lineup of original, exclusive programming with the perfect out-of-vehicle companion to SiriusXM in your car. At home, in the office, at the airport, or in the gym, SiriusXM Internet Radio makes it easy to take over 120 channels of the best commercial-free music and biggest talk personalities everywhere you go.

## Pandora Internet Radio

With Pandora you can explore a vast trove of music to your heart's content. Just drop the name of one of your favorite songs or artists into Pandora and let it go. It will quickly scan its entire world of analyzed music, almost a century of popular recordings - new and old, well known and completely obscure - to find songs with interesting musical similarities to your choice. Then sit back and enjoy as it creates a listening experience full of current and soon-to-be favorite songs for you.

## NAPSTER

Napster is a streaming digital music service that allows you to listen instantly to your choice of over 13 million full-length songs. With a Napster subscription plan, you can play unlimited full-length songs online from any connected computer and an increasing number of Internet-connected devices including this Yamaha product. You get near-limitless choice, and new music is automatically added every week. Think record store in your house, without having to store it all.

## Dolby TrueHD

Dolby® TrueHD is Dolby’s next-generation lossless technology developed for high-definition disc-based media. Dolby TrueHD delivers tantalizing sound that is bit-for-bit identical to the studio master, unlocking the true high-definition entertainment experience on next-generation discs. When coupled with high-definition video, Dolby TrueHD offers an unprecedented home theater experience that lets you enjoy sound as stunning as the high-definition picture.

## DTS HD Master Audio

DTS HD-Master Audio: DTS-HD Audio delivers sound quality that matches the clear and vivid images of high-definition video. Blu-ray and HD-DVD discs deliver five times the video resolution of standard DVD and produce images with stunning realism. But that's only half of the story. You need incredible sound to complete the high definition experience and DTS-HD Audio provides the highest quality multi-channel sound possible. Movies come alive with sound as lifelike as the picture, and music becomes as real as a live performance.

## SIRIUS READY

A Sirius-Ready audio system lets you access your favorite SIRIUS Satellite Radio entertainment, including 100% commercial-free music, plus sports, uncensored talk, comedy, exclusive entertainment, world-class news and more, directly through your audio system with the use of an optional SIRIUS Connect Home Tuner kit. This product has a simple connector that allows you to plug the SIRIUS Connect kit and use the controls of this system to access all the content you want. Subscription and SIRIUS Connect Home Tuner (SC-H1) are required and sold separately.

## HDMI

HDMI (High-Definition Multimedia Interface) is the first and only industry-supported, uncompressed, all-digital audio/video interface. With the ability to deliver crystal-clear, all-digital audio and video via a single cable, HDMI dramatically simplifies cabling and helps provide consumers with the highest-quality home theater experience. HDMI can provide an interface between most audio/video sources, such as a set-top box, Blu-ray player, DVD player, or A/V receiver and a video monitor, such as a High Definition Television (HDTV), over a single cable.

Depending on the model of product, HDMI can support standard, enhanced, or high-definition video, plus multi-channel digital audio on a single cable. It can support all currently-available compressed audio formats (such as Dolby Digital and DTS) and most newer HDMI devices can support lossless digital audio formats like Dolby® TrueHD and DTS-HD Master Audio™.

## Zone2

This unit allows you to configure a multi-zone audio system. The Zone2 feature allows you to set this unit to reproduce separate input sources in the main zone and the second zone (Zone2). You can control this unit from the second zone using the supplied remote control.

## USB

This unit is equipped with a USB port that allows you to enjoy WAV (PCM format only), MP3 and WMA audio files from a USB memory device (USB flash drive).

## iPod Digital Connection

iPod digital connection means that the digital signal from the iPod is transmitted directly to the system, minimising noise interference and allowing use of the DAC not in the iPod, but in the system. This results in more precise sound reproduction.

## Made for iPod and iPhone

Look for the "Made for iPod and iPhone" logo to find electronic accessories designed to connect specifically to an iPod or iPhone and certified by the developer to meet Apple performance standards.

## Made for iPod and iPhone (Docking Station)

The "Made for iPod and iPhone" combination logo indicates that the product is equipped to use an optional Yamaha Universal iPod/iPhone Dock that lets you connect your iPod or iPhone to this product. With the optional dock you can listen to your music and operate the iPod/iPhone via the product's remote control while at the same time charging the battery. Depending on your product's specifications, some will allow you to use the On-Screen Display feature on your video monitor to navigate your music. Some products can even allow you to view your photos and movies from your iPod/iPhone on your video monitor (view the Specifications of each product for iPod/iPhone playback compatibility)...

## Bluetooth

The Bluetooth® logo indicates that the product is equipped to use the optional YBA-10 Bluetooth® Wireless Audio Receiver that lets you connect the dock to the receiver and supports A2DP audio streaming. With the optional YBA-10 Bluetooth dock, you can enjoy music wirelessly from Bluetooth enabled mobile phones, portable devices, or personal computers.
(view the Specifications of each product for Bluetooth® dock compatibility)

## CINEMA DSP 3D mode

The actually measured sound field data contain the information of the height of the sound images. CINEMA DSP 3D mode achieves the reproduction of the accurate height of the sound images so that it creates the accurate and intensive stereoscopic sound fields in a listening room.

## VIRTUAL Presence Speaker

Virtual Presence Speaker mode provides the 3D sound without front presence speakers. Tell customers that the best way to enjoy 3D movies at home is with sound from a Yamaha AV Receiver equipped with CINEMA DSP 3D.

## SILENT CINEMA

SILENT CINEMA makes it possible to hear large-scale surround sound through ordinary headphones! This is a variation of CINEMA DSP technology that Yamaha developed to let you listen in private to movies and other multi-channel sources for hours without listening fatigue. Virtual CINEMA DSP lets you enjoy the effects of CINEMA DSP surround sound without using surround speakers (handy for use in custom installations where some rooms don't have surround speakers). It can be used with the front / center / presence speakers or even with just the two front left and right speakers.

## Compressed Music Enhancer

Yamaha employs sophisticated digital signal processing with exclusive algorithms to enable playback that improves the performance of compressed music formats, including MP3 and WMA. With the Compressed Music Enhancer, highs and especially lows are richer and smoother, bringing music back to life to be as close to the original as possible.

## SCENE – A NEW LEVEL OF OPERATING EASE

Four SCENE buttons make operating the receiver easier than ever. They are initially set to default settings for DVD Viewing, Disc Listening, TV Viewing and Radio Listening. Pressing a SCENE button automatically launches a number of operations that initiate play of the source controlled by that button. Other SCENE settings are also available, such as iPod Listening, XM Listening, TV Sports Viewing and Action Game Playing. Browsing and selecting the settings is quickly accomplished by changing Input via the front panel and watching the on-screen display. The settings can be selected for one-time use, or they can replace the original default settings. The SCENE names can be changed also.

## YPAO Automatic System Calibration

Yamaha’s YPAO system uses a small microphone and sophisticated equalization to automatically set the best sound for any room, no matter where the speakers are. First it checks the speaker connections and phase of each speaker. Then it sends out tones which are captured by the microphone to analyze the room acoustics and sets a variety of parameters, such as the speaker size, the distance of the speakers and even the sound pressure level, etc. Until it achieves the best sound conditions for your room and you don't have to do anything!